

Title (en)

DATA PREPARATION FOR ARTIFICIAL INTELLIGENCE-BASED CARDIAC ARRHYTHMIA DETECTION

Title (de)

DATENAUFBEREITUNG ZUR AUF KÜNSTLICHER INTELLIGENZ BASIERENDEN ERFASSUNG VON HERZRHYTHMUSSTÖRUNGEN

Title (fr)

PRÉPARATION DE DONNÉES POUR DÉTECTION D'ARYTHMIE CARDIAQUE BASÉE SUR L'INTELLIGENCE ARTIFICIELLE

Publication

EP 3965647 A1 20220316 (EN)

Application

EP 20725296 A 20200420

Priority

- US 201962843702 P 20190506
- US 202016851500 A 20200417
- US 2020028925 W 20200420

Abstract (en)

[origin: US2020357518A1] Techniques are disclosed for preparing data for use in artificial intelligence (AI)-based cardiac arrhythmia detection. In accordance with the techniques of this disclosure, a computing system may obtain a cardiac electrogram (EGM) strip that represents a waveform of a cardiac rhythm of a same patient. Additionally, the computing system may preprocess the cardiac EGM strip. The computing system may then apply a deep learning model to the preprocessed cardiac EGM strip to generate arrhythmia data indicating whether the cardiac EGM strip represents one or more occurrences of one or more cardiac arrhythmias.

IPC 8 full level

A61B 5/361 (2021.01); **A61B 5/00** (2006.01); **A61B 5/352** (2021.01)

CPC (source: EP US)

A61B 5/361 (2021.01 - EP); **A61B 5/7264** (2013.01 - EP); **G16H 40/60** (2017.12 - US); **G16H 40/63** (2017.12 - EP); **G16H 40/67** (2017.12 - EP); **G16H 50/20** (2017.12 - EP US); **A61B 5/352** (2021.01 - EP); **A61B 5/686** (2013.01 - EP); **A61B 2560/0209** (2013.01 - EP); **A61B 2560/0242** (2013.01 - EP)

Citation (search report)

See references of WO 2020226885A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 11475998 B2 20221018; US 2020357518 A1 20201112; CN 113784667 A 20211210; EP 3965647 A1 20220316;
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DOCDB simple family (application)

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